

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934245

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934245
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

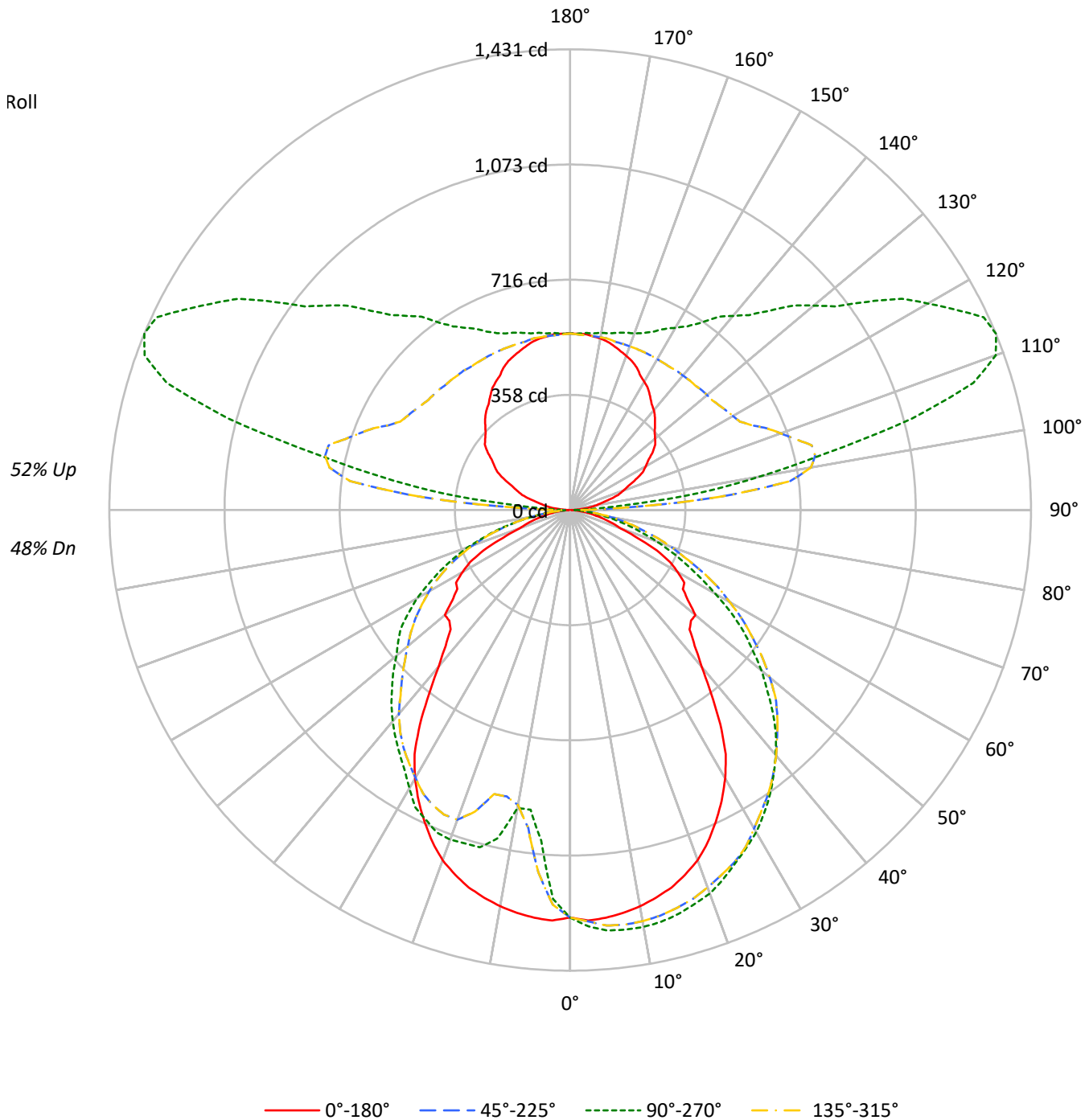
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6837.5 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 56.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P934245
CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5872	5872	5872	5872
5°	5915	5927	5915	4661
10°	5876	5839	5876	4174
15°	5812	5712	5812	4769
20°	5690	5562	5690	4779
25°	5442	5343	5442	4678
30°	5120	5162	5120	4456
35°	4564	4932	4564	4212
40°	3804	4662	3804	4027
45°	3398	4346	3398	3814
50°	3610	3969	3610	3601
55°	3397	3562	3397	3478
60°	3501	3026	3501	3185
65°	3174	2501	3174	2796
70°	2198	1994	2198	2343
75°	1929	1474	1929	1764
80°	1552	974	1552	1060
85°	894	516	894	438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5208 cd/sqm



TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	1.7
10°-20°	324.3	4.7
20°-30°	501.4	7.3
30°-40°	598.5	8.8
40°-50°	602.0	8.8
50°-60°	523.8	7.7
60°-70°	371.4	5.4
70°-80°	196.5	2.9
80°-90°	51.0	0.7
90°-100°	267.2	3.9
100°-110°	702.6	10.3
110°-120°	728.5	10.7
120°-130°	584.4	8.5
130°-140°	458.5	6.7
140°-150°	351.9	5.1
150°-160°	253.5	3.7
160°-170°	155.1	2.3
170°-180°	52.4	0.8
0°-30°	940.0	13.7
0°-40°	1538.5	22.5
0°-60°	2664.4	39.0
0°-90°	3283.4	48.0
90°-120°	1698.4	24.8
90°-150°	3093.2	45.2
90°-180°	3554.0	52.0
0°-180°	6837.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1266	1266	1266	1266	1266	
5°	1272	1311	1272	1031	1272	121
15°	1214	1299	1214	1085	1214	342
25°	1069	1212	1069	1061	1069	491
35°	813	1081	813	923	813	503
45°	524	891	524	782	524	420
55°	427	657	427	642	427	393
65°	297	396	297	443	297	284
75°	113	188	113	225	113	118
85°	19	48	19	41	19	26
90°	4	14	4	14	4	4
95°	35	162	35	162	35	39
105°	127	1100	127	1100	127	134
115°	225	1417	225	1417	225	222
125°	313	1128	313	1128	313	278
135°	373	875	373	875	373	288
145°	432	710	432	710	432	271
155°	489	612	489	612	489	225
165°	527	570	527	570	527	149
175°	548	552	548	552	548	52
180°	548	548	548	548	548	



TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1276.3	1276.3	1283.5	1285.9	1285.9	1282.2	1278.7	1282.2	1293.0	1296.6	1295.5
5°	1271.5	1281.1	1294.3	1296.6	1299.0	1297.9	1295.5	1297.9	1309.8	1312.2	1313.4
7.5°	1261.9	1279.9	1296.6	1300.3	1303.9	1300.3	1299.0	1301.4	1313.4	1315.8	1315.8
10°	1249.9	1275.1	1294.3	1296.6	1300.3	1296.6	1296.6	1301.4	1313.4	1315.8	1317.0
12.5°	1233.2	1267.9	1285.9	1288.2	1293.0	1291.9	1290.6	1295.5	1307.4	1309.8	1309.8
15°	1214.1	1254.8	1271.5	1273.9	1282.2	1279.9	1279.9	1284.7	1297.9	1301.4	1300.3
17.5°	1187.7	1238.0	1257.2	1260.7	1266.7	1265.6	1266.7	1271.5	1283.5	1285.9	1287.1
20°	1157.7	1215.2	1238.0	1241.5	1247.5	1247.5	1247.5	1253.5	1265.6	1270.3	1270.3
22.5°	1117.0	1191.3	1215.2	1217.6	1224.9	1224.9	1227.2	1235.6	1246.4	1247.5	1247.5
25°	1069.2	1165.0	1185.3	1192.5	1199.7	1203.3	1206.8	1211.6	1215.2	1214.1	1215.2
27.5°	1018.9	1131.4	1157.7	1162.5	1172.1	1175.8	1180.5	1181.7	1182.9	1186.5	1184.1
30°	962.6	1084.7	1124.3	1129.1	1144.6	1147.0	1142.2	1144.6	1150.6	1153.0	1155.4
32.5°	899.1	1015.3	1089.5	1100.3	1114.7	1107.5	1106.3	1109.9	1119.4	1119.4	1121.8
35°	812.9	961.4	1057.2	1066.8	1077.6	1069.2	1074.0	1075.2	1081.1	1084.7	1083.6
37.5°	718.4	914.8	1023.7	1030.9	1039.3	1028.5	1035.6	1039.3	1044.0	1041.6	1041.6
40°	634.6	841.7	984.2	988.9	996.2	987.8	994.9	997.3	999.7	997.3	996.2
42.5°	572.3	761.5	942.2	948.2	943.4	949.5	951.8	956.6	953.1	948.2	948.2
45°	524.4	739.9	896.7	904.0	896.7	906.4	909.9	909.9	899.1	896.7	895.6
47.5°	508.9	696.8	851.3	851.3	847.6	859.7	865.7	857.3	846.5	842.9	842.9
50°	507.6	648.9	789.0	784.3	800.9	815.3	809.3	800.9	792.6	779.4	779.4
52.5°	460.9	590.3	708.8	726.8	753.1	761.5	751.9	743.6	729.2	723.1	718.4
55°	427.4	529.2	635.7	671.7	699.2	710.0	692.0	683.7	662.1	658.5	656.1
57.5°	420.2	440.6	568.7	614.2	647.7	646.5	635.7	620.2	602.3	598.7	597.4
60°	385.5	318.5	496.8	550.7	585.5	581.9	572.3	557.9	541.2	538.8	536.4
62.5°	349.6	231.1	415.4	476.5	525.6	524.4	516.0	494.5	482.5	476.5	471.7
65°	296.9	194.0	295.7	396.3	466.9	469.3	451.4	435.8	422.7	415.4	414.3
67.5°	226.3	158.1	199.9	330.4	410.7	408.3	385.5	378.4	361.6	358.0	350.8
70°	167.6	105.3	138.9	268.2	355.6	349.6	331.6	323.3	307.7	299.3	294.6
72.5°	138.9	85.0	101.8	208.3	299.3	292.2	276.5	267.0	253.9	246.6	241.8
75°	112.6	89.8	77.8	154.4	243.1	238.2	223.9	214.3	203.5	194.0	195.1
77.5°	82.7	83.8	62.2	113.7	192.8	185.6	177.2	165.2	160.4	150.9	150.9
80°	62.2	65.9	46.7	77.8	138.9	138.9	131.7	123.4	115.0	110.1	110.1
82.5°	41.9	41.9	34.7	49.1	94.6	91.0	86.2	83.8	79.0	76.6	76.6
85°	19.2	23.9	21.5	29.9	51.5	53.9	53.9	51.5	50.3	47.9	49.1
87.5°	6.0	10.8	13.2	16.8	26.3	27.6	28.7	28.7	28.7	29.9	29.9
90°	3.7	6.6	9.6	10.3	16.2	24.0	27.9	24.8	18.7	14.0	14.0
92.5°	14.7	39.7	64.8	71.1	99.9	138.3	157.5	138.0	99.1	69.9	67.1
95°	35.3	81.1	126.9	138.4	245.6	388.7	460.3	410.8	311.7	237.3	229.0
97.5°	61.1	101.4	141.8	151.9	330.9	569.5	688.8	657.5	594.8	547.9	531.8
100°	81.0	117.6	154.2	163.3	362.0	626.7	759.1	761.4	766.0	769.3	750.2
102.5°	97.9	132.1	166.2	174.8	376.2	644.7	779.0	818.9	898.7	958.5	942.2
105°	126.6	155.5	184.5	191.7	386.8	646.8	776.8	866.2	1045.2	1179.3	1170.5
107.5°	156.0	183.0	209.9	216.7	388.6	618.0	732.6	857.4	1106.9	1294.1	1296.3
110°	175.8	200.2	224.7	230.7	385.8	592.4	695.8	835.3	1114.3	1323.5	1332.7



TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	195.4	218.6	241.8	247.6	385.9	570.2	662.3	805.1	1090.6	1304.7	1318.8
115°	224.9	246.3	267.7	273.1	389.5	544.7	622.2	759.8	1034.8	1241.1	1260.6
117.5°	253.9	273.3	292.8	297.7	396.7	528.6	594.6	718.7	967.0	1153.2	1174.8
120°	270.8	289.1	307.5	312.1	402.6	523.3	583.6	697.0	923.8	1093.9	1114.9
122.5°	287.3	305.8	324.3	328.9	411.0	520.4	575.1	677.2	881.6	1034.7	1055.4
125°	312.8	329.6	346.4	350.6	422.4	518.1	565.9	652.7	826.2	956.4	975.5
127.5°	333.4	350.4	367.3	371.6	433.8	516.7	558.2	632.7	781.7	893.4	909.5
130°	344.4	362.7	381.1	385.6	442.1	517.5	555.2	621.5	754.2	853.6	868.5
132.5°	355.8	374.1	392.5	397.0	448.9	518.1	552.7	612.1	730.8	819.8	833.1
135°	372.8	389.5	406.1	410.2	456.2	517.5	548.2	598.0	697.4	771.9	783.5
137.5°	390.1	406.6	423.1	427.2	467.3	520.8	547.5	589.6	673.7	736.7	746.1
140°	404.4	419.6	434.8	438.6	474.1	521.3	544.9	581.3	653.8	708.3	717.0
142.5°	415.4	429.4	443.5	447.0	479.7	523.2	544.9	576.8	640.6	688.5	696.1
145°	432.4	444.6	456.9	460.0	487.1	523.3	541.3	567.3	619.6	658.7	664.4
147.5°	449.3	461.2	473.2	476.1	497.8	526.8	541.3	561.8	602.8	633.6	638.3
150°	460.3	471.1	481.9	484.6	503.5	528.7	541.3	558.6	593.3	619.3	623.1
152.5°	471.7	480.0	488.1	490.1	507.2	529.9	541.3	556.1	585.6	607.9	610.8
155°	488.6	494.7	500.8	502.3	515.3	532.6	541.3	553.1	576.5	594.2	596.2
157.5°	501.1	507.0	512.9	514.4	523.3	535.3	541.3	550.4	568.7	582.4	583.8
160°	509.6	514.2	518.8	520.0	527.1	536.6	541.3	549.1	564.8	576.5	577.3
162.5°	518.1	521.6	524.9	525.8	531.0	537.9	541.3	547.9	561.2	571.1	571.8
165°	527.3	530.4	533.4	534.2	536.6	539.7	541.3	546.0	555.5	562.6	563.4
167.5°	535.8	537.2	538.7	539.1	541.0	543.6	544.9	548.1	554.3	559.0	559.3
170°	541.3	542.7	544.2	544.6	544.7	544.9	544.9	548.1	554.3	559.0	559.0
172.5°	544.2	544.6	544.9	544.9	544.9	544.9	544.9	547.4	552.4	556.0	555.7
175°	548.2	548.2	548.2	548.2	547.2	545.7	544.9	546.5	549.6	551.9	551.9
177.5°	548.2	548.2	548.2	548.2	547.4	546.2	545.7	546.9	549.3	551.2	550.8
180°	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2



TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1297.9	1294.3	1297.9	1295.5	1296.6	1293.0	1282.2	1278.7	1282.2	1285.9	1285.9
5°	1313.4	1311.0	1313.4	1313.4	1312.2	1309.8	1297.9	1295.5	1297.9	1299.0	1296.6
7.5°	1318.2	1314.7	1318.2	1315.8	1315.8	1313.4	1301.4	1299.0	1300.3	1303.9	1300.3
10°	1318.2	1314.7	1318.2	1317.0	1315.8	1313.4	1301.4	1296.6	1296.6	1300.3	1296.6
12.5°	1312.2	1309.8	1312.2	1309.8	1309.8	1307.4	1295.5	1290.6	1291.9	1293.0	1288.2
15°	1302.6	1299.0	1302.6	1300.3	1301.4	1297.9	1284.7	1279.9	1279.9	1282.2	1273.9
17.5°	1288.2	1283.5	1288.2	1287.1	1285.9	1283.5	1271.5	1266.7	1265.6	1266.7	1260.7
20°	1271.5	1267.9	1271.5	1270.3	1270.3	1265.6	1253.5	1247.5	1247.5	1247.5	1241.5
22.5°	1245.2	1241.5	1245.2	1247.5	1247.5	1246.4	1235.6	1227.2	1224.9	1224.9	1217.6
25°	1215.2	1211.6	1215.2	1215.2	1214.1	1215.2	1211.6	1206.8	1203.3	1199.7	1192.5
27.5°	1186.5	1184.1	1186.5	1184.1	1186.5	1182.9	1181.7	1180.5	1175.8	1172.1	1162.5
30°	1157.7	1155.4	1157.7	1155.4	1153.0	1150.6	1144.6	1142.2	1147.0	1144.6	1129.1
32.5°	1121.8	1119.4	1121.8	1121.8	1119.4	1119.4	1109.9	1106.3	1107.5	1114.7	1100.3
35°	1084.7	1081.1	1084.7	1083.6	1084.7	1081.1	1075.2	1074.0	1069.2	1077.6	1066.8
37.5°	1041.6	1038.0	1041.6	1041.6	1041.6	1044.0	1039.3	1035.6	1028.5	1039.3	1030.9
40°	997.3	992.5	997.3	996.2	997.3	999.7	997.3	994.9	987.8	996.2	988.9
42.5°	947.1	945.8	947.1	948.2	948.2	953.1	956.6	951.8	949.5	943.4	948.2
45°	893.2	890.7	893.2	895.6	896.7	899.1	909.9	909.9	906.4	896.7	904.0
47.5°	835.7	829.7	835.7	842.9	842.9	846.5	857.3	865.7	859.7	847.6	851.3
50°	774.6	775.9	774.6	779.4	779.4	792.6	800.9	809.3	815.3	800.9	784.3
52.5°	714.8	713.6	714.8	718.4	723.1	729.2	743.6	751.9	761.5	753.1	726.8
55°	654.9	657.3	654.9	656.1	658.5	662.1	683.7	692.0	710.0	699.2	671.7
57.5°	595.0	591.5	595.0	597.4	598.7	602.3	620.2	635.7	646.5	647.7	614.2
60°	525.6	520.8	525.6	536.4	538.8	541.2	557.9	572.3	581.9	585.5	550.7
62.5°	464.5	456.1	464.5	471.7	476.5	482.5	494.5	516.0	524.4	525.6	476.5
65°	399.9	396.3	399.9	414.3	415.4	422.7	435.8	451.4	469.3	466.9	396.3
67.5°	341.2	341.2	341.2	350.8	358.0	361.6	378.4	385.5	408.3	410.7	330.4
70°	287.3	286.2	287.3	294.6	299.3	307.7	323.3	331.6	349.6	355.6	268.2
72.5°	235.8	234.7	235.8	241.8	246.6	253.9	267.0	276.5	292.2	299.3	208.3
75°	190.4	188.0	190.4	195.1	194.0	203.5	214.3	223.9	238.2	243.1	154.4
77.5°	146.0	146.0	146.0	150.9	150.9	160.4	165.2	177.2	185.6	192.8	113.7
80°	109.0	107.7	109.0	110.1	110.1	115.0	123.4	131.7	138.9	138.9	77.8
82.5°	76.6	74.3	76.6	76.6	76.6	79.0	83.8	86.2	91.0	94.6	49.1
85°	47.9	47.9	47.9	49.1	47.9	50.3	51.5	53.9	53.9	51.5	29.9
87.5°	31.2	29.9	31.2	29.9	29.9	28.7	28.7	28.7	27.6	26.3	16.8
90°	14.0	14.0	14.0	14.0	14.0	18.7	24.8	27.9	24.0	16.2	10.3
92.5°	56.0	44.9	56.0	67.1	69.9	99.1	138.0	157.5	138.3	99.9	71.1
95°	195.2	161.6	195.2	229.0	237.3	311.7	410.8	460.3	388.7	245.6	138.4
97.5°	467.7	403.6	467.7	531.8	547.9	594.8	657.5	688.8	569.5	330.9	151.9
100°	673.9	597.5	673.9	750.2	769.3	766.0	761.4	759.1	626.7	362.0	163.3
102.5°	876.7	811.3	876.7	942.2	958.5	898.7	818.9	779.0	644.7	376.2	174.8
105°	1135.3	1100.2	1135.3	1170.5	1179.3	1045.2	866.2	776.8	646.8	386.8	191.7
107.5°	1304.7	1313.2	1304.7	1296.3	1294.1	1106.9	857.4	732.6	618.0	388.6	216.7
110°	1369.3	1406.0	1369.3	1332.7	1323.5	1114.3	835.3	695.8	592.4	385.8	230.7



TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1375.1	1431.3	1375.1	1318.8	1304.7	1090.6	805.1	662.3	570.2	385.9	247.6
115°	1338.6	1416.6	1338.6	1260.6	1241.1	1034.8	759.8	622.2	544.7	389.5	273.1
117.5°	1261.4	1347.9	1261.4	1174.8	1153.2	967.0	718.7	594.6	528.6	396.7	297.7
120°	1199.0	1283.1	1199.0	1114.9	1093.9	923.8	697.0	583.6	523.3	402.6	312.1
122.5°	1138.4	1221.3	1138.4	1055.4	1034.7	881.6	677.2	575.1	520.4	411.0	328.9
125°	1051.8	1128.2	1051.8	975.5	956.4	826.2	652.7	565.9	518.1	422.4	350.6
127.5°	973.9	1038.4	973.9	909.5	893.4	781.7	632.7	558.2	516.7	433.8	371.6
130°	928.1	987.6	928.1	868.5	853.6	754.2	621.5	555.2	517.5	442.1	385.6
132.5°	886.5	939.8	886.5	833.1	819.8	730.8	612.1	552.7	518.1	448.9	397.0
135°	829.4	875.4	829.4	783.5	771.9	697.4	598.0	548.2	517.5	456.2	410.2
137.5°	783.7	821.3	783.7	746.1	736.7	673.7	589.6	547.5	520.8	467.3	427.2
140°	752.2	787.4	752.2	717.0	708.3	653.8	581.3	544.9	521.3	474.1	438.6
142.5°	726.2	756.5	726.2	696.1	688.5	640.6	576.8	544.9	523.2	479.7	447.0
145°	687.3	710.2	687.3	664.4	658.7	619.6	567.3	541.3	523.3	487.1	460.0
147.5°	657.3	676.3	657.3	638.3	633.6	602.8	561.8	541.3	526.8	497.8	476.1
150°	638.5	653.8	638.5	623.1	619.3	593.3	558.6	541.3	528.7	503.5	484.6
152.5°	622.4	634.0	622.4	610.8	607.9	585.6	556.1	541.3	529.9	507.2	490.1
155°	603.9	611.5	603.9	596.2	594.2	576.5	553.1	541.3	532.6	515.3	502.3
157.5°	589.2	594.6	589.2	583.8	582.4	568.7	550.4	541.3	535.3	523.3	514.4
160°	580.5	583.6	580.5	577.3	576.5	564.8	549.1	541.3	536.6	527.1	520.0
162.5°	574.8	577.7	574.8	571.8	571.1	561.2	547.9	541.3	537.9	531.0	525.8
165°	566.5	569.6	566.5	563.4	562.6	555.5	546.0	541.3	539.7	536.6	534.2
167.5°	560.6	561.9	560.6	559.3	559.0	554.3	548.1	544.9	543.6	541.0	539.1
170°	559.0	559.0	559.0	559.0	559.0	554.3	548.1	544.9	544.9	544.7	544.6
172.5°	554.6	553.4	554.6	555.7	556.0	552.4	547.4	544.9	544.9	544.9	544.9
175°	551.9	551.9	551.9	551.9	551.9	549.6	546.5	544.9	545.7	547.2	548.2
177.5°	549.6	548.2	549.6	550.8	551.2	549.3	546.9	545.7	546.2	547.4	548.2
180°	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2



TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1283.5	1276.3	1276.3	1264.3	1259.6	1255.9	1249.9	1232.0	1227.2	1222.4	1229.6
5°	1294.3	1281.1	1271.5	1249.9	1232.0	1224.9	1202.1	1159.0	1130.2	1108.6	1096.7
7.5°	1296.6	1279.9	1261.9	1228.4	1185.3	1166.1	1096.7	1017.7	996.2	977.0	965.0
10°	1294.3	1275.1	1249.9	1199.7	1097.9	1064.4	994.9	943.4	930.3	926.7	930.3
12.5°	1285.9	1267.9	1233.2	1149.4	1006.9	984.2	943.4	913.5	911.1	917.1	949.5
15°	1271.5	1254.8	1214.1	1082.3	956.6	939.8	911.1	900.4	913.5	955.5	1052.4
17.5°	1257.2	1238.0	1187.7	1016.5	918.3	906.4	886.0	907.5	981.8	1038.0	1070.3
20°	1238.0	1215.2	1157.7	968.6	890.7	880.0	870.4	967.4	1023.7	1044.0	1062.0
22.5°	1215.2	1191.3	1117.0	935.1	862.0	853.7	859.7	1000.9	1023.7	1038.0	1053.6
25°	1185.3	1165.0	1069.2	908.8	839.3	829.7	852.5	997.3	1010.5	1014.1	1045.3
27.5°	1157.7	1131.4	1018.9	884.8	811.7	808.2	858.4	981.8	991.3	994.9	1028.5
30°	1124.3	1084.7	962.6	859.7	783.0	781.8	859.7	962.6	960.2	969.8	1003.3
32.5°	1089.5	1015.3	899.1	828.5	755.5	754.3	851.3	933.9	931.4	944.7	969.8
35°	1057.2	961.4	812.9	792.6	720.8	722.0	830.9	900.4	901.5	913.5	929.1
37.5°	1023.7	914.8	718.4	753.1	687.2	687.2	803.4	869.2	866.8	870.4	892.0
40°	984.2	841.7	634.6	701.6	656.1	652.5	769.9	835.7	827.3	826.1	856.0
42.5°	942.2	761.5	572.3	633.4	620.2	615.4	729.2	795.0	779.4	783.0	821.3
45°	896.7	739.9	524.4	535.2	583.1	579.5	684.8	748.3	737.5	747.1	786.6
47.5°	851.3	696.8	508.9	444.2	543.6	542.4	635.7	702.8	696.8	706.4	748.3
50°	789.0	648.9	507.6	380.7	499.2	504.1	577.1	658.5	658.5	666.9	711.2
52.5°	708.8	590.3	460.9	344.8	447.7	462.1	525.6	620.2	622.6	631.0	670.4
55°	635.7	529.2	427.4	317.2	386.7	417.8	475.3	580.6	585.5	593.9	629.7
57.5°	568.7	440.6	420.2	284.9	330.4	360.4	431.0	542.4	544.8	551.9	586.6
60°	496.8	318.5	385.5	250.2	281.4	304.1	390.3	496.8	505.2	510.0	539.9
62.5°	415.4	231.1	349.6	226.3	257.4	262.2	356.8	453.8	464.5	468.2	486.1
65°	295.7	194.0	296.9	205.9	232.3	233.5	320.9	409.4	419.1	425.1	438.2
67.5°	199.9	158.1	226.3	186.7	213.2	214.3	286.2	358.0	371.2	376.0	384.4
70°	138.9	105.3	167.6	166.4	191.6	194.0	249.0	311.3	323.3	326.9	331.6
72.5°	101.8	85.0	138.9	149.7	168.8	171.2	210.7	258.6	270.6	274.2	276.5
75°	77.8	89.8	112.6	130.5	143.7	144.9	172.4	210.7	219.1	221.5	222.7
77.5°	62.2	83.8	82.7	105.3	117.3	115.0	135.3	162.8	170.0	170.0	170.0
80°	46.7	65.9	62.2	75.4	86.2	83.8	96.9	116.1	118.5	121.0	119.7
82.5°	34.7	41.9	41.9	47.9	57.5	55.1	64.6	75.4	75.4	75.4	77.8
85°	21.5	23.9	19.2	25.2	32.3	31.2	35.9	40.7	41.9	41.9	39.5
87.5°	13.2	10.8	6.0	9.6	14.4	14.4	16.8	17.9	16.8	16.8	16.8
90°	9.6	6.6	3.7	6.6	9.6	10.3	16.2	24.0	27.9	24.8	18.7
92.5°	64.8	39.7	14.7	39.7	64.8	71.1	99.9	138.3	157.5	138.0	99.1
95°	126.9	81.1	35.3	81.1	126.9	138.4	245.6	388.7	460.3	410.8	311.7
97.5°	141.8	101.4	61.1	101.4	141.8	151.9	330.9	569.5	688.8	657.5	594.8
100°	154.2	117.6	81.0	117.6	154.2	163.3	362.0	626.7	759.1	761.4	766.0
102.5°	166.2	132.1	97.9	132.1	166.2	174.8	376.2	644.7	779.0	818.9	898.7
105°	184.5	155.5	126.6	155.5	184.5	191.7	386.8	646.8	776.8	866.2	1045.2
107.5°	209.9	183.0	156.0	183.0	209.9	216.7	388.6	618.0	732.6	857.4	1106.9
110°	224.7	200.2	175.8	200.2	224.7	230.7	385.8	592.4	695.8	835.3	1114.3



TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	241.8	218.6	195.4	218.6	241.8	247.6	385.9	570.2	662.3	805.1	1090.6
115°	267.7	246.3	224.9	246.3	267.7	273.1	389.5	544.7	622.2	759.8	1034.8
117.5°	292.8	273.3	253.9	273.3	292.8	297.7	396.7	528.6	594.6	718.7	967.0
120°	307.5	289.1	270.8	289.1	307.5	312.1	402.6	523.3	583.6	697.0	923.8
122.5°	324.3	305.8	287.3	305.8	324.3	328.9	411.0	520.4	575.1	677.2	881.6
125°	346.4	329.6	312.8	329.6	346.4	350.6	422.4	518.1	565.9	652.7	826.2
127.5°	367.3	350.4	333.4	350.4	367.3	371.6	433.8	516.7	558.2	632.7	781.7
130°	381.1	362.7	344.4	362.7	381.1	385.6	442.1	517.5	555.2	621.5	754.2
132.5°	392.5	374.1	355.8	374.1	392.5	397.0	448.9	518.1	552.7	612.1	730.8
135°	406.1	389.5	372.8	389.5	406.1	410.2	456.2	517.5	548.2	598.0	697.4
137.5°	423.1	406.6	390.1	406.6	423.1	427.2	467.3	520.8	547.5	589.6	673.7
140°	434.8	419.6	404.4	419.6	434.8	438.6	474.1	521.3	544.9	581.3	653.8
142.5°	443.5	429.4	415.4	429.4	443.5	447.0	479.7	523.2	544.9	576.8	640.6
145°	456.9	444.6	432.4	444.6	456.9	460.0	487.1	523.3	541.3	567.3	619.6
147.5°	473.2	461.2	449.3	461.2	473.2	476.1	497.8	526.8	541.3	561.8	602.8
150°	481.9	471.1	460.3	471.1	481.9	484.6	503.5	528.7	541.3	558.6	593.3
152.5°	488.1	480.0	471.7	480.0	488.1	490.1	507.2	529.9	541.3	556.1	585.6
155°	500.8	494.7	488.6	494.7	500.8	502.3	515.3	532.6	541.3	553.1	576.5
157.5°	512.9	507.0	501.1	507.0	512.9	514.4	523.3	535.3	541.3	550.4	568.7
160°	518.8	514.2	509.6	514.2	518.8	520.0	527.1	536.6	541.3	549.1	564.8
162.5°	524.9	521.6	518.1	521.6	524.9	525.8	531.0	537.9	541.3	547.9	561.2
165°	533.4	530.4	527.3	530.4	533.4	534.2	536.6	539.7	541.3	546.0	555.5
167.5°	538.7	537.2	535.8	537.2	538.7	539.1	541.0	543.6	544.9	548.1	554.3
170°	544.2	542.7	541.3	542.7	544.2	544.6	544.7	544.9	544.9	548.1	554.3
172.5°	544.9	544.6	544.2	544.6	544.9	544.9	544.9	544.9	544.9	547.4	552.4
175°	548.2	548.2	548.2	548.2	548.2	548.2	547.2	545.7	544.9	546.5	549.6
177.5°	548.2	548.2	548.2	548.2	548.2	548.2	547.4	546.2	545.7	546.9	549.3
180°	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2



TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1221.2	1217.6	1222.4	1209.2	1222.4	1217.6	1221.2	1229.6	1222.4	1227.2	1232.0
5°	1071.6	1065.6	1046.4	1030.9	1046.4	1065.6	1071.6	1096.7	1108.6	1130.2	1159.0
7.5°	957.8	953.1	948.2	938.7	948.2	953.1	957.8	965.0	977.0	996.2	1017.7
10°	932.7	933.9	941.1	939.8	941.1	933.9	932.7	930.3	926.7	930.3	943.4
12.5°	997.3	1008.1	1047.6	1045.3	1047.6	1008.1	997.3	949.5	917.1	911.1	913.5
15°	1071.6	1075.2	1083.6	1084.7	1083.6	1075.2	1071.6	1052.4	955.5	913.5	900.4
17.5°	1078.7	1080.0	1086.0	1086.0	1086.0	1080.0	1078.7	1070.3	1038.0	981.8	907.5
20°	1072.8	1075.2	1087.1	1089.5	1087.1	1075.2	1072.8	1062.0	1044.0	1023.7	967.4
22.5°	1070.3	1075.2	1084.7	1083.6	1084.7	1075.2	1070.3	1053.6	1038.0	1023.7	1000.9
25°	1058.4	1058.4	1059.6	1060.8	1059.6	1058.4	1058.4	1045.3	1014.1	1010.5	997.3
27.5°	1033.2	1035.6	1042.8	1041.6	1042.8	1035.6	1033.2	1028.5	994.9	991.3	981.8
30°	1010.5	1008.1	1002.1	997.3	1002.1	1008.1	1010.5	1003.3	969.8	960.2	962.6
32.5°	972.2	966.2	960.2	956.6	960.2	966.2	972.2	969.8	944.7	931.4	933.9
35°	926.7	927.9	926.7	923.1	926.7	927.9	926.7	929.1	913.5	901.5	900.4
37.5°	894.4	896.7	895.6	890.7	895.6	896.7	894.4	892.0	870.4	866.8	869.2
40°	860.8	862.0	860.8	857.3	860.8	862.0	860.8	856.0	826.1	827.3	835.7
42.5°	828.5	827.3	823.7	821.3	823.7	827.3	828.5	821.3	783.0	779.4	795.0
45°	791.4	792.6	785.4	781.8	785.4	792.6	791.4	786.6	747.1	737.5	748.3
47.5°	754.3	754.3	748.3	744.7	748.3	754.3	754.3	748.3	706.4	696.8	702.8
50°	714.8	713.6	705.2	704.0	705.2	713.6	714.8	711.2	666.9	658.5	658.5
52.5°	669.3	669.3	670.4	672.9	670.4	669.3	669.3	670.4	631.0	622.6	620.2
55°	629.7	631.0	639.4	641.7	639.4	631.0	629.7	629.7	593.9	585.5	580.6
57.5°	589.0	589.0	595.0	595.0	595.0	589.0	589.0	586.6	551.9	544.8	542.4
60°	542.4	544.8	549.6	548.3	549.6	544.8	542.4	539.9	510.0	505.2	496.8
62.5°	493.3	495.7	496.8	494.5	496.8	495.7	493.3	486.1	468.2	464.5	453.8
65°	441.8	444.2	445.4	443.0	445.4	444.2	441.8	438.2	425.1	419.1	409.4
67.5°	389.1	387.9	386.7	391.5	386.7	387.9	389.1	384.4	376.0	371.2	358.0
70°	335.3	335.3	334.0	336.4	334.0	335.3	335.3	331.6	326.9	323.3	311.3
72.5°	277.8	276.5	281.4	277.8	281.4	276.5	277.8	276.5	274.2	270.6	258.6
75°	221.5	223.9	221.5	225.1	221.5	223.9	221.5	222.7	221.5	219.1	210.7
77.5°	168.8	171.2	168.8	168.8	168.8	171.2	168.8	170.0	170.0	170.0	162.8
80°	119.7	118.5	118.5	117.3	118.5	118.5	119.7	119.7	121.0	118.5	116.1
82.5°	76.6	75.4	75.4	77.8	75.4	75.4	76.6	77.8	75.4	75.4	75.4
85°	41.9	43.1	40.7	40.7	40.7	43.1	41.9	39.5	41.9	41.9	40.7
87.5°	15.5	14.4	14.4	14.4	14.4	14.4	15.5	16.8	16.8	16.8	17.9
90°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	18.7	24.8	27.9	24.0
92.5°	69.9	67.1	56.0	44.9	56.0	67.1	69.9	99.1	138.0	157.5	138.3
95°	237.3	229.0	195.2	161.6	195.2	229.0	237.3	311.7	410.8	460.3	388.7
97.5°	547.9	531.8	467.7	403.6	467.7	531.8	547.9	594.8	657.5	688.8	569.5
100°	769.3	750.2	673.9	597.5	673.9	750.2	769.3	766.0	761.4	759.1	626.7
102.5°	958.5	942.2	876.7	811.3	876.7	942.2	958.5	898.7	818.9	779.0	644.7
105°	1179.3	1170.5	1135.3	1100.2	1135.3	1170.5	1179.3	1045.2	866.2	776.8	646.8
107.5°	1294.1	1296.3	1304.7	1313.2	1304.7	1296.3	1294.1	1106.9	857.4	732.6	618.0
110°	1323.5	1332.7	1369.3	1406.0	1369.3	1332.7	1323.5	1114.3	835.3	695.8	592.4



TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1304.7	1318.8	1375.1	1431.3	1375.1	1318.8	1304.7	1090.6	805.1	662.3	570.2
115°	1241.1	1260.6	1338.6	1416.6	1338.6	1260.6	1241.1	1034.8	759.8	622.2	544.7
117.5°	1153.2	1174.8	1261.4	1347.9	1261.4	1174.8	1153.2	967.0	718.7	594.6	528.6
120°	1093.9	1114.9	1199.0	1283.1	1199.0	1114.9	1093.9	923.8	697.0	583.6	523.3
122.5°	1034.7	1055.4	1138.4	1221.3	1138.4	1055.4	1034.7	881.6	677.2	575.1	520.4
125°	956.4	975.5	1051.8	1128.2	1051.8	975.5	956.4	826.2	652.7	565.9	518.1
127.5°	893.4	909.5	973.9	1038.4	973.9	909.5	893.4	781.7	632.7	558.2	516.7
130°	853.6	868.5	928.1	987.6	928.1	868.5	853.6	754.2	621.5	555.2	517.5
132.5°	819.8	833.1	886.5	939.8	886.5	833.1	819.8	730.8	612.1	552.7	518.1
135°	771.9	783.5	829.4	875.4	829.4	783.5	771.9	697.4	598.0	548.2	517.5
137.5°	736.7	746.1	783.7	821.3	783.7	746.1	736.7	673.7	589.6	547.5	520.8
140°	708.3	717.0	752.2	787.4	752.2	717.0	708.3	653.8	581.3	544.9	521.3
142.5°	688.5	696.1	726.2	756.5	726.2	696.1	688.5	640.6	576.8	544.9	523.2
145°	658.7	664.4	687.3	710.2	687.3	664.4	658.7	619.6	567.3	541.3	523.3
147.5°	633.6	638.3	657.3	676.3	657.3	638.3	633.6	602.8	561.8	541.3	526.8
150°	619.3	623.1	638.5	653.8	638.5	623.1	619.3	593.3	558.6	541.3	528.7
152.5°	607.9	610.8	622.4	634.0	622.4	610.8	607.9	585.6	556.1	541.3	529.9
155°	594.2	596.2	603.9	611.5	603.9	596.2	594.2	576.5	553.1	541.3	532.6
157.5°	582.4	583.8	589.2	594.6	589.2	583.8	582.4	568.7	550.4	541.3	535.3
160°	576.5	577.3	580.5	583.6	580.5	577.3	576.5	564.8	549.1	541.3	536.6
162.5°	571.1	571.8	574.8	577.7	574.8	571.8	571.1	561.2	547.9	541.3	537.9
165°	562.6	563.4	566.5	569.6	566.5	563.4	562.6	555.5	546.0	541.3	539.7
167.5°	559.0	559.3	560.6	561.9	560.6	559.3	559.0	554.3	548.1	544.9	543.6
170°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	554.3	548.1	544.9	544.9
172.5°	556.0	555.7	554.6	553.4	554.6	555.7	556.0	552.4	547.4	544.9	544.9
175°	551.9	551.9	551.9	551.9	551.9	551.9	551.9	549.6	546.5	544.9	545.7
177.5°	551.2	550.8	549.6	548.2	549.6	550.8	551.2	549.3	546.9	545.7	546.2
180°	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2



TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1249.9	1255.9	1259.6	1264.3	1276.3
5°	1202.1	1224.9	1232.0	1249.9	1271.5
7.5°	1096.7	1166.1	1185.3	1228.4	1261.9
10°	994.9	1064.4	1097.9	1199.7	1249.9
12.5°	943.4	984.2	1006.9	1149.4	1233.2
15°	911.1	939.8	956.6	1082.3	1214.1
17.5°	886.0	906.4	918.3	1016.5	1187.7
20°	870.4	880.0	890.7	968.6	1157.7
22.5°	859.7	853.7	862.0	935.1	1117.0
25°	852.5	829.7	839.3	908.8	1069.2
27.5°	858.4	808.2	811.7	884.8	1018.9
30°	859.7	781.8	783.0	859.7	962.6
32.5°	851.3	754.3	755.5	828.5	899.1
35°	830.9	722.0	720.8	792.6	812.9
37.5°	803.4	687.2	687.2	753.1	718.4
40°	769.9	652.5	656.1	701.6	634.6
42.5°	729.2	615.4	620.2	633.4	572.3
45°	684.8	579.5	583.1	535.2	524.4
47.5°	635.7	542.4	543.6	444.2	508.9
50°	577.1	504.1	499.2	380.7	507.6
52.5°	525.6	462.1	447.7	344.8	460.9
55°	475.3	417.8	386.7	317.2	427.4
57.5°	431.0	360.4	330.4	284.9	420.2
60°	390.3	304.1	281.4	250.2	385.5
62.5°	356.8	262.2	257.4	226.3	349.6
65°	320.9	233.5	232.3	205.9	296.9
67.5°	286.2	214.3	213.2	186.7	226.3
70°	249.0	194.0	191.6	166.4	167.6
72.5°	210.7	171.2	168.8	149.7	138.9
75°	172.4	144.9	143.7	130.5	112.6
77.5°	135.3	115.0	117.3	105.3	82.7
80°	96.9	83.8	86.2	75.4	62.2
82.5°	64.6	55.1	57.5	47.9	41.9
85°	35.9	31.2	32.3	25.2	19.2
87.5°	16.8	14.4	14.4	9.6	6.0
90°	16.2	10.3	9.6	6.6	3.7
92.5°	99.9	71.1	64.8	39.7	14.7
95°	245.6	138.4	126.9	81.1	35.3
97.5°	330.9	151.9	141.8	101.4	61.1
100°	362.0	163.3	154.2	117.6	81.0
102.5°	376.2	174.8	166.2	132.1	97.9
105°	386.8	191.7	184.5	155.5	126.6
107.5°	388.6	216.7	209.9	183.0	156.0
110°	385.8	230.7	224.7	200.2	175.8



TEST NUMBER: P934245

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	385.9	247.6	241.8	218.6	195.4
115°	389.5	273.1	267.7	246.3	224.9
117.5°	396.7	297.7	292.8	273.3	253.9
120°	402.6	312.1	307.5	289.1	270.8
122.5°	411.0	328.9	324.3	305.8	287.3
125°	422.4	350.6	346.4	329.6	312.8
127.5°	433.8	371.6	367.3	350.4	333.4
130°	442.1	385.6	381.1	362.7	344.4
132.5°	448.9	397.0	392.5	374.1	355.8
135°	456.2	410.2	406.1	389.5	372.8
137.5°	467.3	427.2	423.1	406.6	390.1
140°	474.1	438.6	434.8	419.6	404.4
142.5°	479.7	447.0	443.5	429.4	415.4
145°	487.1	460.0	456.9	444.6	432.4
147.5°	497.8	476.1	473.2	461.2	449.3
150°	503.5	484.6	481.9	471.1	460.3
152.5°	507.2	490.1	488.1	480.0	471.7
155°	515.3	502.3	500.8	494.7	488.6
157.5°	523.3	514.4	512.9	507.0	501.1
160°	527.1	520.0	518.8	514.2	509.6
162.5°	531.0	525.8	524.9	521.6	518.1
165°	536.6	534.2	533.4	530.4	527.3
167.5°	541.0	539.1	538.7	537.2	535.8
170°	544.7	544.6	544.2	542.7	541.3
172.5°	544.9	544.9	544.9	544.6	544.2
175°	547.2	548.2	548.2	548.2	548.2
177.5°	547.4	548.2	548.2	548.2	548.2
180°	548.2	548.2	548.2	548.2	548.2



TEST NUMBER: P934245
 CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-3500K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.77	11.61	11.74	12.60	13.90	13.61	14.45	14.58	15.44	16.74
	3H	11.25	12.00	12.23	13.00	14.32	14.96	15.71	15.94	16.71	18.03
	4H	11.44	12.15	12.44	13.15	14.48	15.40	16.12	16.40	17.12	18.45
	6H	11.55	12.21	12.56	13.22	14.56	15.69	16.34	16.69	17.35	18.69
	8H	11.56	12.18	12.57	13.20	14.54	15.76	16.39	16.78	17.41	18.75
	12H	11.53	12.12	12.55	13.14	14.50	15.80	16.40	16.82	17.41	18.78
4H	2H	11.80	12.52	12.81	13.52	14.85	14.02	14.73	15.02	15.73	17.06
	3H	12.83	13.43	13.84	14.45	15.80	15.52	16.12	16.54	17.15	18.49
	4H	13.10	13.65	14.13	14.67	16.04	16.05	16.60	17.07	17.62	18.98
	6H	13.23	13.70	14.26	14.74	16.10	16.42	16.89	17.45	17.93	19.29
	8H	13.23	13.67	14.27	14.71	16.09	16.52	16.96	17.56	18.00	19.38
	12H	13.20	13.60	14.25	14.65	16.03	16.58	16.98	17.63	18.03	19.41
8H	4H	13.56	14.00	14.59	15.03	16.41	16.17	16.61	17.21	17.65	19.03
	6H	13.82	14.18	14.88	15.26	16.64	16.61	16.97	17.67	18.05	19.43
	8H	13.86	14.18	14.93	15.24	16.64	16.76	17.08	17.83	18.15	19.54
	12H	13.84	14.12	14.91	15.18	16.62	16.86	17.14	17.93	18.20	19.64
12H	4H	13.56	13.96	14.61	15.01	16.39	16.14	16.53	17.19	17.59	18.97
	6H	13.88	14.20	14.94	15.26	16.66	16.61	16.93	17.67	17.99	19.39
	8H	13.95	14.23	15.01	15.28	16.72	16.77	17.05	17.84	18.11	19.55